

Birds of Sarawak

A Pocket Checklist

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Institute of Biodiversity
and
Environmental Conservation

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UNIVERSITI MALAYSIA SARAWAK



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FOREWORD

It is a great pleasure to present *The Birds of Sarawak: a Pocket Checklist* as the first publication of the Institute of Biodiversity and Environmental Conservation (IBEC) of UNIMAS. Paramount among the objectives of IBEC is to understand scientifically the ecological principles and benefits that biodiversity holds for humanity and to promote the wise management and use of the nation's biotic wealth in ways that do not adversely affect the environment. The Institute is attempting to promote research and the acquisition and dissemination of knowledge in priority areas of environmental science and technology, with emphasis on processes and technology applicable and relevant to the tropical environment.

This pocket checklist by Richard Gregory-Smith accords perfectly with the IBEC objectives, and should significantly facilitate ornithological research in Sarawak. A considerable part of the understanding of biodiversity in this state must be obtained through development of inventories of the various major groups of animals and plants. Birds constitute a particularly important component of Sarawak's biodiversity, because of their widespread occurrence, the role of some species as indicators of habitat quality, the aesthetic appeal of many species, their involvement in ceremonies and beliefs of various ethnic groups and their economic importance. Thus, bird distributions, habitats, abundance, migratory status, and feeding habits are key elements in the biodiversity inventory.

IBEC is specially charged with the responsibility for developing a natural heritage database, providing for continually updated, computerised biodiversity information. A part of the useful body of information Mr. Gregory-Smith has accumulated on Sarawak birds is presented in this checklist, but it is also a component of the database, thus demonstrating one of the modes by which such information can be retrieved and presented.

Mr. Gregory-Smith has spent many years studying Asian and Australasian birds. His field knowledge of the birds in this part of the world is extensive, and he has published a large number of books and papers based on his first-hand field observations. His indefatigable preoccupation with field studies under often difficult conditions is a constant source of admiration and awe for all who know him. Consequently, IBEC is fortunate in being able to promote both his research and the opportunity for all bird enthusiasts to obtain more information on Sarawak's birds through the publication of this pocket checklist.

John H. Beaman
Director,
Institute of Biodiversity and Environmental Conservation

A POCKET CHECKLIST OF THE BIRDS OF SARAWAK

Introduction

Interest in the identification, study and conservation of birds is on the increase globally. Here in Sarawak both residents and visitors have found the need for a checklist of what birds they might see and where. This list has been produced to meet that need, and follows the latest nomenclature and taxonomic order of species.

The list is designed to be used in conjunction with a good field guide. Both *"The birds of Borneo"* by Smythies, and *"A field guide to the birds of Borneo, Sumatra, Java and Bali"* by MacKinnon and Phillips cover Sarawak. The reference numbers in the checklist refer to the latter publication.

In the limited space available I have broadly defined the status of species by simple coding of parameters, with which the user will quickly become familiar. Five columns are provided for use in different locations.

Richard Gregory-Smith

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- Sibley C.G. and Monroe B.L. (1990). *Distribution and taxonomy of birds of the world*. New Haven and London: Yale University Press.
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STATUS OF SPECIES

The status of each species has been broadly defined using the parameters: habitat, altitude, distribution, storey, migration and abundance. Protected species are indicated. These parameters are divided as follows:

P - Protected species

P - protected

P* - totally protected

HA - Habitat

C - coast and estuary

M - mangrove forest and nypa

F - freshwater wetlands

P - peat swamp forest

R - rainforest

S - secondary growth, scrub and plantation

U - urban and rural developed areas and grassland

A - aerial

O - open sea

L - limestone karsts and ranges

Where a species frequents a number of habitats, the three in which it is most commonly found are specified.

AL - Altitude

L - lowland, to approximately 1000 metres

M - montane, over approximately 1000 metres

DI - Distribution

S - south, comprising Kuching, Samarahan, Sri Aman and Sarikei Divisions.

C - central, comprising Sibu, Kapit and Bintulu Divisions.

N - north, comprising Miri and Limbang Divisions

Where no indication is given, the species is widespread in Sarawak, or further research on distribution is required.

ST - Storey

Usually feeds in forest/secondary growth at these levels:

- G - ground
- L - lower storey
- M - mid-storey
- U - upper storey/canopy

M - Migration

- M - migrant
- R - resident
- V - vagrant

Eastern Palaearctic migrants mostly arrive in the area in September/October and depart in April/May.

AB - Abundance

- A - abundant
- C - common
- L - local to restricted area
- U - uncommon
- R - rare

Abundance is necessarily subjective and is based upon the author's experience and that of others consulted.

MAP OF SARAWAK INDICATING DISTRIBUTION AREAS

SOUTH CHINA SEA

SABAH

• LIMBANG

• MIRI

NORTH

• BARIO

• BINTULU

CENTRAL

• SIBU

SOUTH

• SRI AMAN

• KUCHING

KALIMANTAN
(INDONESIA)



PHASIANIDAE

| | | |
|-----|--------------------------|------------------------------------|
| 125 | LONG-BILLED PARTRIDGE | <i>Rhizothera longirostris</i> |
| 126 | BLACK PARTRIDGE | <i>Melanoperdix nigra</i> |
| 127 | BLUE-BREASTED QUAIL | <i>Coturnix chinensis</i> |
| 131 | RED-BREASTED PARTRIDGE | <i>Arborophila hyperythra</i> |
| 133 | FERRUGINOUS PARTRIDGE | <i>Caloperdix oculea</i> |
| 134 | CRIMSON-HEADED PARTRIDGE | <i>Haematortyx sanguiniceps</i> |
| 135 | CRESTED PARTRIDGE | <i>Rollulus roulroul</i> |
| 136 | CRESTLESS FIREBACK | <i>Lophura erythrophthalma</i> |
| 137 | CRESTED FIREBACK | <i>Lophura ignita</i> |
| 138 | BULWER'S PHEASANT | <i>Lophura bulweri</i> |
| 144 | BORNEAN PEACOCK-PHEASANT | <i>Polyplectron schlegelmachan</i> |
| 145 | GREAT ARGUS | <i>Argusianus argus</i> |

DENDROCYGNIDAE

| | | |
|----|-----------------------|-----------------------------|
| 66 | LESSER WHISTLING-DUCK | <i>Dendrocygna javanica</i> |
|----|-----------------------|-----------------------------|

ANATIDAE

| | | |
|----|--------------------|---------------------------------|
| 78 | COTTON PYGMY-GOOSE | <i>Nettapus coromandelianus</i> |
| 72 | EURASIAN WIGEON | <i>Anas penelope</i> |
| 71 | MALLARD | <i>Anas platyrhynchos</i> |
| 68 | NORTHERN PINTAIL | <i>Anas acuta</i> |
| 74 | GARGANY | <i>Anas querquedula</i> |
| 75 | NORTHERN SHOVELER | <i>Anas clypeata</i> |
| 76 | TUFTED DUCK | <i>Aythya fuligula</i> |

INDICATORIDAE

| | | |
|-----|----------------------|---------------------------------|
| 499 | MALAYSIAN HONEYGUIDE | <i>Indicator archipelagicus</i> |
|-----|----------------------|---------------------------------|

PICIDAE

| | | |
|-----|---------------------------|---------------------------------|
| 427 | RUFIOUS PICULET | <i>Sasia abnormis</i> |
| 444 | SUNDA WOODPECKER | <i>Dendrocopus moluccensis</i> |
| 443 | GREY-CAPPED WOODPECKER | <i>Dendrocopus canicapillus</i> |
| 428 | RUFIOUS WOODPECKER | <i>Celeus brachyurus</i> |
| 441 | WHITE-BELLIED WOODPECKER | <i>Dryocopus javensis</i> |
| 435 | BANDED WOODPECKER | <i>Picus miniaceus</i> |
| 432 | CRIMSON-WINGED WOODPECKER | <i>Picus puniceus</i> |

| P | HA | AL | DI | ST | MI | AB | 1 | 2 | 3 | 4 | 5 |
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|----|-----|----|----|---|---|---|--|--|--|--|--|
| P | RL | LM | | G | R | R | | | | | |
| P | RS | L | | G | R | U | | | | | |
| | FSU | LM | | G | R | C | | | | | |
| P | SR | M | N | G | R | U | | | | | |
| | R | M | N | G | R | U | | | | | |
| P | RS | ML | | G | R | U | | | | | |
| P | R | LM | | G | R | U | | | | | |
| P | RS | L | NC | G | R | U | | | | | |
| P | R | LM | | G | R | U | | | | | |
| P* | R | M | | G | R | U | | | | | |
| P* | R | L | C | G | R | R | | | | | |
| P* | R | L | | G | R | C | | | | | |

| | | | | | | | | | | | |
|--|---|---|--|--|---|---|--|--|--|--|--|
| | F | L | | | R | R | | | | | |
|--|---|---|--|--|---|---|--|--|--|--|--|

| | | | | | | | | | | | |
|--|----|----|---|--|---|---|--|--|--|--|---|
| | F | L | | | M | U | | | | | , |
| | F | L | C | | V | R | | | | | |
| | F | L | N | | M | R | | | | | |
| | F | L | C | | M | R | | | | | |
| | FC | LM | | | M | U | | | | | |
| | F | L | | | V | R | | | | | |
| | F | L | | | M | R | | | | | |

| | | | | | | | | | | | |
|--|---|---|--|--|---|---|--|--|--|--|--|
| | S | L | | | R | R | | | | | |
|--|---|---|--|--|---|---|--|--|--|--|--|

| | | | | | | | | | | | |
|---|-----|----|--|----|---|---|--|--|--|--|--|
| P | RP | LM | | L | R | C | | | | | |
| P | MSU | L | | LU | R | C | | | | | |
| P | MSU | LM | | LU | R | U | | | | | |
| P | RS | LM | | UG | R | U | | | | | |
| P | MR | L | | LU | R | R | | | | | |
| P | RS | LM | | LU | R | C | | | | | |
| P | RS | LM | | LU | R | C | | | | | |

| No. | FAMILY AND SPECIES | |
|-----|-----------------------------|------------------------------------|
| 434 | CHEQUER-THROATED WOODPECKER | <i>Picus mentalis</i> |
| 437 | OLIVE-BACKED WOODPECKER | <i>Dinopium rafflesii</i> |
| 436 | COMMON FLAMEBACK | <i>Dinopium javanense</i> |
| 446 | MAROON WOODPECKER | <i>Blythipicus rubiginosus</i> |
| 447 | ORANGE-BACKED WOODPECKER | <i>Reinwardtipicus validus</i> |
| 438 | BUFF-RUMPED WOODPECKER | <i>Meglyptes tristis</i> |
| 439 | BUFF-NECKED WOODPECKER | <i>Meglyptes tukki</i> |
| 445 | GREY-AND-BUFF WOODPECKER | <i>Hemicircus concretus</i> |
| 440 | GREAT SLATY WOODPECKER | <i>Muelleripicus pulverulentus</i> |

MEGALAIMIDAE

| | | |
|-----|-----------------------|---------------------------------|
| 412 | GOLD-WHISKERED BARBET | <i>Megalaima chrysopogon</i> |
| 413 | RED-CROWNED BARBET | <i>Megalaima rafflesii</i> |
| 414 | RED-THROATED BARBET | <i>Megalaima mystacophanus</i> |
| 417 | MOUNTAIN BARBET | <i>Megalaima monticola</i> |
| 418 | YELLOW-CROWNED BARBET | <i>Megalaima henrici</i> |
| 420 | GOLDEN-NAPED BARBET | <i>Megalaima pulcherrima</i> |
| 421 | BLUE-EARED BARBET | <i>Megalaima australis</i> |
| 422 | BORNEAN BARBET | <i>Megalaima eximia</i> |
| 424 | BROWN BARBET | <i>Calorhamphus fuliginosus</i> |

BUCEROTIDAE

| | | |
|-----|------------------------|----------------------------------|
| 405 | ORIENTAL PIED-HORNBILL | <i>Anthracoceros albirostris</i> |
| 404 | BLACK HORNBILL | <i>Anthracoceros malayanus</i> |
| 406 | RHINOCEROS HORNBILL | <i>Buceros rhinoceros</i> |
| 408 | HELMETED HORNBILL | <i>Buceros vigil</i> |
| 399 | BUSHY-CRESTED HORNBILL | <i>Anorrhinus galeritus</i> |
| 400 | WHITE-CROWNED HORNBILL | <i>Aceros comatus</i> |
| 401 | WRINKLED HORNBILL | <i>Aceros corrugatus</i> |
| 402 | WREATHED HORNBILL | <i>Aceros undulatus</i> |

UPUPIDAE

| | | |
|-----|-----------------|--------------------|
| 398 | EURASIAN HOOPOE | <i>Upapa epops</i> |
|-----|-----------------|--------------------|

TROGONIDAE

| | | |
|-----|------------------|--------------------------|
| 370 | RED-NAPED TROGON | <i>Harpactes kasumba</i> |
| 371 | DIARD'S TROGON | <i>Harpactes diardi</i> |

| P | RA | AL | OL | ST | V | AB | 1 | 2 | 3 | 4 | 5 |
|---|----|----|----|----|---|----|---|---|---|---|---|
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|---|-----|----|--|----|---|---|--|--|--|--|--|
| P | R | LM | | LM | R | U | | | | | |
| P | RS | L | | LU | R | U | | | | | |
| P | MSU | L | | LU | R | U | | | | | |
| P | RP | LM | | LM | R | C | | | | | |
| P | RPS | LM | | LU | R | U | | | | | |
| P | R | L | | U | R | U | | | | | |
| P | R | L | | LM | R | C | | | | | |
| P | RP | LM | | MU | R | U | | | | | |
| P | MR | L | | MU | R | C | | | | | |

| | | | | | | | | | | | |
|--|-----|----|---|----|---|---|--|--|--|--|--|
| | R | LM | | U | R | C | | | | | |
| | RP | LM | | U | R | C | | | | | |
| | RP | L | | MU | R | C | | | | | |
| | R | M | N | U | R | C | | | | | |
| | R | L | | U | R | C | | | | | |
| | R | M | N | U | R | C | | | | | |
| | RPS | LM | | U | R | A | | | | | |
| | R | M | | U | R | C | | | | | |
| | RS | L | | U | R | C | | | | | |

| | | | | | | | | | | | |
|----|-----|----|--|---|---|---|--|--|--|--|--|
| P* | CSR | L | | U | R | U | | | | | |
| P* | R | L | | U | R | U | | | | | |
| P* | R | LM | | U | R | U | | | | | |
| P* | R | LM | | U | R | U | | | | | |
| P* | R | LM | | U | R | U | | | | | |
| P* | R | LM | | U | R | U | | | | | |
| P* | R | L | | U | R | U | | | | | |
| P* | R | M | | U | R | U | | | | | |

| | | | | | | | | | | | |
|--|---|---|--|---|---|---|--|--|--|--|--|
| | U | L | | G | V | R | | | | | |
|--|---|---|--|---|---|---|--|--|--|--|--|

| | | | | | | | | | | | |
|--|---|----|--|----|---|---|--|--|--|--|--|
| | R | L | | M | R | U | | | | | |
| | R | LM | | LM | R | U | | | | | |

| No. | FAMILY AND SPECIES | |
|-----|------------------------|------------------------------|
| 372 | WHITEHEAD'S TROGON | <i>Harpactes whiteheadi</i> |
| 373 | CINNAMON-RUMPED TROGON | <i>Harpactes orthophaeus</i> |
| 374 | SCARLET-RUMPED TROGON | <i>Harpactes duvaucelli</i> |
| 375 | ORANGE-BREASTED TROGON | <i>Harpactes oreskios</i> |

CORACIIDAE

| | | |
|-----|------------|-------------------------------|
| 397 | DOLLARBIRD | <i>Eurystormus orientalis</i> |
|-----|------------|-------------------------------|

ALCEDINIDAE

| | | |
|-----|---------------------------|-------------------------|
| 377 | COMMON KINGFISHER | <i>Alcedo atthis</i> |
| 378 | BLUE-EARED KINGFISHER | <i>Alcedo meninting</i> |
| 379 | BLUE-BANDED KINGFISHER | <i>Alcedo euryzona</i> |
| 381 | BLACK-BACKED KINGFISHER | <i>Ceyx erithacus</i> |
| 382 | RUFIOUS-BACKED KINGFISHER | <i>Ceyx rufidorsa</i> |

HALCYONIDAE

| | | |
|-----|-----------------------------|-----------------------------|
| 384 | BANDED KINGFISHER | <i>Lacedo pulchella</i> |
| 383 | STORK-BILLED KINGFISHER | <i>Pelargopsis capensis</i> |
| 385 | RUDDY KINGFISHER | <i>Halcyon coromanda</i> |
| 386 | BLACK-CAPPED KINGFISHER | <i>Halcyon pileata</i> |
| 389 | COLLARED KINGFISHER | <i>Todirhamphus chloris</i> |
| 390 | SACRED KINGFISHER | <i>Todirhamphus sanctus</i> |
| 391 | RUFIOUS-COLLARED KINGFISHER | <i>Actenoides concretus</i> |

MEROPIDAE

| | | |
|-----|-------------------------|---------------------------|
| 396 | RED-BEARDED BEE-EATER | <i>Nyctornis amictus</i> |
| 394 | BLUE-THROATED BEE-EATER | <i>Merops viridis</i> |
| 393 | BLUE-TAILED BEE-EATER | <i>Merops philippinus</i> |

CUCULIDAE

| | | |
|-----|------------------------|------------------------------|
| 290 | CHESTNUT-WINGED CUCKOO | <i>Clamator coromandus</i> |
| 291 | LARGE HAWK-CUCKOO | <i>Cuculus sparveroides</i> |
| 292 | MOUSTACHED HAWK-CUCKOO | <i>Cuculus vagans</i> |
| 293 | HODGSON'S HAWK-CUCKOO | <i>Cuculus fugax</i> |
| 294 | INDIAN CUCKOO | <i>Cuculus micropterus</i> |
| 296 | ORIENTAL CUCKOO | <i>Cuculus saturatus</i> |
| 297 | BANDED BAY CUCKOO | <i>Cacomantis sonneratii</i> |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|---|----|---|----|---|---|---|---|---|----|
| | R | M | N | M | R | U | | | | |
| | R | LM | | LM | R | U | | | | |
| | R | L | | LM | R | U | | | | |
| | R | LM | | MU | R | U | | | | |

| | | | | | | | | | | |
|--|-----|---|--|---|----|---|--|--|--|--|
| | USM | L | | U | RM | C | | | | |
|--|-----|---|--|---|----|---|--|--|--|--|

| | | | | | | | | | | |
|---|-----|----|--|---|----|---|--|--|--|--|
| P | CMF | LM | | L | M | C | | | | |
| P | R | LM | | L | R | U | | | | |
| P | R | LM | | L | R | U | | | | |
| P | R | L | | L | RM | U | | | | |
| P | MPF | L | | L | R | C | | | | |

| | | | | | | | | | | |
|---|-----|----|--|----|----|---|--|--|--|--|
| P | R | LM | | LM | R | U | | | | |
| P | MPF | L | | LM | R | C | | | | |
| P | CM | L | | LM | RM | U | | | | |
| P | CMF | LM | | LM | M | U | | | | |
| P | CMU | L | | LM | R | A | | | | |
| P | U | L | | LM | M | R | | | | |
| P | R | LM | | LM | R | U | | | | |

| | | | | | | | | | | |
|--|-----|----|---|----|---|---|--|--|--|--|
| | R | LM | | MU | R | U | | | | |
| | CPU | L | | U | M | C | | | | |
| | FMU | L | N | U | M | R | | | | |

| | | | | | | | | | | |
|--|-----|----|---|----|----|---|--|--|--|--|
| | RSU | L | | LM | M | R | | | | |
| | R | M | N | MU | RM | U | | | | |
| | R | L | | MU | R | R | | | | |
| | R | LM | | MU | RM | U | | | | |
| | RP | LM | | U | RM | C | | | | |
| | RS | M | | MU | R | U | | | | |
| | R | LM | | MU | R | U | | | | |

| No. | FAMILY AND SPECIES | |
|-----|--------------------|--|
|-----|--------------------|--|

| | | |
|-----|---------------------------|------------------------------------|
| 298 | PLAINTIVE CUCKOO | <i>Cacomantis merulinus</i> |
| 299 | RUSTY-BREASTED CUCKOO | <i>Cacomantis sepiocrales</i> |
| | BRUSH CUCKOO | <i>Cacomantis variolosus</i> |
| 301 | VIOLET CUCKOO | <i>Chrysococcyx xanthorhynchus</i> |
| 305 | DRONGO CUCKOO | <i>Surniculus lugubris</i> |
| 306 | ASIAN KOEL | <i>Eudynamis scolopacea</i> |
| 307 | BLACK-BELLIED MALKOHA | <i>Phaenicophaeus diardi</i> |
| 308 | CHESTNUT-BELLIED MALKOHA | <i>Phaenicophaeus sumatranus</i> |
| 310 | RAFFLES' MALKOHA | <i>Phaenicophaeus chlorophaeus</i> |
| 311 | RED-BILLED MALKOHA | <i>Phaenicophaeus javanicus</i> |
| 312 | CHESTNUT-BREASTED MALKOHA | <i>Phaenicophaeus curvirostris</i> |
| 313 | SUNDA GROUND-CUCKOO | <i>Carpococcyx radiceus</i> |

CENTROPODIDAE

| | | |
|-----|-------------------|------------------------------|
| 314 | SHORT-TOED COUCAL | <i>Centropus rectunguis</i> |
| 315 | GREATER COUCAL | <i>Centropus sinensis</i> |
| 316 | LESSER COUCAL | <i>Centropus bengalensis</i> |

PSITTACIDAE

| | | |
|-----|-----------------------------|------------------------------|
| 285 | BLUE-RUMPED PARROT | <i>Psittinus cyanurus</i> |
| 288 | BLUE-CROWNED HANGING-PARROT | <i>Loriculus galgulus</i> |
| 282 | LONG-TAILED PARAKEET | <i>Psittacula longicauda</i> |

APODIDAE

| | | |
|-----|---------------------------|------------------------------|
| | WATERFALL SWIFTLET | <i>Hydrochous gigas</i> |
| 358 | GLOSSY SWIFTLET | <i>Collocalia esculenta</i> |
| 356 | MOSSY-NEST SWIFTLET | <i>Collocalia salangana</i> |
| 355 | BLACK-NEST SWIFTLET | <i>Collocalia maxima</i> |
| 354 | EDIBLE-NEST SWIFTLET | <i>Collocalia fuciphaga</i> |
| 263 | SILVER-RUMPED SPINETAIL | <i>Rhipidura leucopygia</i> |
| 360 | WHITE-THROATED NEEDLETAIL | <i>Hirundapus caudacutus</i> |
| 362 | BROWN-BACKED NEEDLETAIL | <i>Hirundapus giganteus</i> |
| 366 | ASIAN PALM-SWIFT | <i>Cypsiurus balasensis</i> |
| 364 | FORK-TAILED SWIFT | <i>Apus pacificus</i> |
| 365 | HOUSE SWIFT | <i>Apus nipalensis</i> |

| P | HA | AL | DI | ST | M | AB | 1 | 2 | 3 | 4 | 5 |
|---|-----|----|----|----|---|----|---|---|---|---|---|
| | RSU | L | | LM | R | A | | | | | |
| | MRS | L | | LM | R | U | | | | | |
| | R | ML | N | LM | R | R | | | | | |
| | USM | L | | LM | R | U | | | | | |
| | RS | L | | MU | R | C | | | | | |
| | CSU | L | S | LM | M | LC | | | | | |
| | RSM | LM | | M | R | U | | | | | |
| | MRS | LM | | M | R | U | | | | | |
| | RS | L | | M | R | C | | | | | |
| | R | LM | | M | R | R | | | | | |
| | RS | LM | | M | R | C | | | | | |
| | R | L | | G | R | R | | | | | |

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|--|-----|----|---|----|---|----|--|--|--|--|--|
| | R | L | N | LG | R | LC | | | | | |
| | SUM | LM | | LG | R | C | | | | | |
| | FUP | LM | | LG | R | C | | | | | |

| | | | | | | | | | | | |
|---|-----|---|--|---|---|---|--|--|--|--|--|
| P | MRU | L | | U | R | U | | | | | |
| P | MRU | L | | U | R | U | | | | | |
| | MRU | L | | U | R | U | | | | | |

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|---|---|----|---|--|---|----|--|--|--|--|--|
| P | A | LM | | | V | R | | | | | |
| P | A | LM | | | R | C | | | | | |
| P | A | LM | | | R | LC | | | | | |
| P | A | LM | | | R | C | | | | | |
| P | A | LM | | | R | C | | | | | |
| | A | LM | | | R | U | | | | | |
| | A | LM | N | | M | U | | | | | |
| | A | LM | | | R | U | | | | | |
| | A | L | | | R | LC | | | | | |
| | A | LM | | | M | U | | | | | |
| | A | LM | | | R | C | | | | | |

HEMIPROCNIDAE

| | | |
|-----|-----------------------|-------------------------------|
| 367 | GREY-RUMPED TREESWIFT | <i>Hemiprocne longipennis</i> |
| 368 | WHISKERED TREESWIFT | <i>Hemiprocne comata</i> |

TYTONIDAE

| | | |
|-----|------------------|------------------------|
| 319 | ORIENTAL BAY OWL | <i>Phodilus badius</i> |
|-----|------------------|------------------------|

STRIGIDAE

| | | |
|-----|--------------------|----------------------------|
| 321 | REDDISH SCOPS-OWL | <i>Otus rufescens</i> |
| 322 | MOUNTAIN SCOPS-OWL | <i>Otus spilocephalus</i> |
| 329 | RAJAH'S SCOPS-OWL | <i>Otus brookei</i> |
| 330 | COLLARED SCOPS-OWL | <i>Otus bakkamoena</i> |
| 332 | BARRED EAGLE-OWL | <i>Bubo sumatranus</i> |
| 333 | BUFFY FISH-OWL | <i>Ketupa ketupu</i> |
| 338 | BROWN WOOD-OWL | <i>Strix leptogrammica</i> |
| 334 | COLLARED OWLET | <i>Glaucidium brodiei</i> |
| 336 | BROWN HAWK-OWL | <i>Ninox scutulata</i> |
| 339 | SHORT-EARED OWL | <i>Asio flammeus</i> |

BATRACHOSTOMIDAE

| | | |
|-----|------------------------|-------------------------------------|
| 340 | LARGE FROGMOUTH | <i>Batrachostomus aeneus</i> |
| 341 | DULIT FROGMOUTH | <i>Batrachostomus harteri</i> |
| 342 | GOULD'S FROGMOUTH | <i>Batrachostomus stellatus</i> |
| 343 | SHORT-TAILED FROGMOUTH | <i>Batrachostomus poliocephalus</i> |
| 344 | JAVAN FROGMOUTH | <i>Batrachostomus javensis</i> |
| 345 | SUNDA FROGMOUTH | <i>Batrachostomus cornutus</i> |

EUROSTOPODIDAE

| | | |
|-----|--------------------------|-----------------------------|
| 346 | MALAYSIAN EARED-NIGHTJAR | <i>Eurostopus bennettii</i> |
|-----|--------------------------|-----------------------------|

CAPRIMULGIDAE

| | | |
|-----|-----------------------|------------------------------|
| 348 | GREY NIGHTJAR | <i>Caprimulgus indicus</i> |
| 349 | LARGE-TAILED NIGHTJAR | <i>Caprimulgus macrurus</i> |
| 351 | BONAPARTE'S NIGHTJAR | <i>Caprimulgus concretus</i> |

COLUMBIDAE

| | | |
|-----|---------------------|----------------------|
| 272 | ROCK PIGEON (FERAL) | <i>Columba livia</i> |
|-----|---------------------|----------------------|

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| | MPB | LM | | U | R | C | | | | | |
| | R | L | | U | R | C | | | | | |

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| P | R | LM | | | R | U | | | | | |
|---|---|----|--|--|---|---|--|--|--|--|--|

| | | | | | | | | | | | |
|---|-----|----|----|----|----|---|--|--|--|--|--|
| P | R | LM | | LM | R | U | | | | | |
| P | R | M | N | LM | R | U | | | | | |
| P | R | M | N | | R | R | | | | | |
| P | RSU | LM | | LM | R | C | | | | | |
| P | RS | LM | | MU | R | U | | | | | |
| P | MPU | L | | LM | R | U | | | | | |
| P | R | LM | | | R | U | | | | | |
| P | R | M | NC | LM | R | U | | | | | |
| P | MPS | LM | | LM | RM | U | | | | | |
| P | FU | L | S | L | V | R | | | | | |

| | | | | | | | | | | | |
|--|----|---|----|----|---|---|--|--|--|--|--|
| | R | L | | LM | R | U | | | | | |
| | R | M | NC | LM | R | R | | | | | |
| | R | L | | LM | R | U | | | | | |
| | R | L | N | LM | R | R | | | | | |
| | SU | L | | LM | R | R | | | | | |
| | S | L | ? | LM | R | U | | | | | |

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|--|---|----|--|----|---|---|--|--|--|--|--|
| | R | LM | | LM | R | U | | | | | |
|--|---|----|--|----|---|---|--|--|--|--|--|

| | | | | | | | | | | | |
|--|-----|----|--|----|---|---|--|--|--|--|--|
| | RSU | LM | | LM | M | U | | | | | |
| | MSU | LM | | LM | R | C | | | | | |
| | R | L | | LM | R | U | | | | | |

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|--|---|----|--|---|---|---|--|--|--|--|--|
| | U | LM | | G | R | C | | | | | |
|--|---|----|--|---|---|---|--|--|--|--|--|

| No. | FAMILY AND SPECIES | |
|-----|------------------------------|-------------------------------|
| 271 | SILVERY WOOD-PIGEON | <i>Columba argentina</i> |
| 277 | SPOTTED DOVE | <i>Streptopelia chinensis</i> |
| 274 | RUDDY CUCKOO-DOVE | <i>Macropygia emiliana</i> |
| 275 | LITTLE CUCKOO-DOVE | <i>Macropygia ruficeps</i> |
| 279 | EMERALD DOVE | <i>Chalcophaps indica</i> |
| 278 | ZEBRA DOVE | <i>Geopelia striata</i> |
| 255 | CINAMMON-HEADED GREEN-PIGEON | <i>Treron fuscicollis</i> |
| 256 | LITTLE GREEN-PIGEON | <i>Treron olax</i> |
| 257 | PINK-NECKED PIGEON | <i>Treron vernans</i> |
| 253 | THICK-BILLED GREEN-PIGEON | <i>Treron curvirostra</i> |
| 259 | LARGE GREEN PIGEON | <i>Treron capellei</i> |
| 260 | JAMBU FRUIT-DOVE | <i>Ptilinopus jambu</i> |
| 264 | GREEN IMPERIAL-PIGEON | <i>Ducula aenea</i> |
| 266 | MOUNTAIN IMPERIAL-PIGEON | <i>Ducula badia</i> |
| 265 | PIED IMPERIAL-PIGEON | <i>Ducula bicolor</i> |

RALLIDAE

| | | |
|-----|-------------------------|--------------------------------|
| 151 | RED-LEGGED CRAKE | <i>Rallina fasciata</i> |
| 150 | SLATY-BREASTED RAIL | <i>Gallirallus striatus</i> |
| 149 | WATER RAIL | <i>Rallus aquaticus</i> |
| 157 | WHITE-BREASTED WATERHEN | <i>Ammaurornis phoenicurus</i> |
| 153 | BAILLON'S CRAKE | <i>Porzana pusilla</i> |
| 154 | RUDDY-BREASTED CRAKE | <i>Porzana fusca</i> |
| 155 | BAND-BELLIED CRAKE | <i>Porzana paykullii</i> |
| 156 | WHITE-BROWED CRAKE | <i>Porzana cinerea</i> |
| 158 | WATERCOCK | <i>Gallicrex cinerea</i> |
| 159 | COMMON MOORHEN | <i>Gallinula chloropus</i> |

SCOLOPACIDAE

| | | |
|-----|---------------------|----------------------------|
| 204 | PINTAIL SNIPE | <i>Gallinago stenura</i> |
| 205 | SWINHOE'S SNIPE | <i>Gallinago megala</i> |
| 206 | COMMON SNIPE | <i>Gallinago gallinago</i> |
| 188 | BLACK-TAILED GODWIT | <i>Limosa limosa</i> |
| 189 | BAR-TAILED GODWIT | <i>Limosa lapponica</i> |
| 186 | LITTLE CURLEW | <i>Numenius minutus</i> |
| 185 | WHIMBREL | <i>Numenius phaeopus</i> |

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|---|-----|----|----|----|---|----|--|--|--|--|--|--|--|
| P | C | L | S? | | R | R | | | | | | | |
| | MBU | LM | | LG | R | A | | | | | | | |
| | R | LM | | LM | R | LC | | | | | | | |
| | R | M | NC | LM | R | LC | | | | | | | |
| | ADM | LM | | G | R | C | | | | | | | |
| | SU | L | | LG | R | LC | | | | | | | |
| | MPU | LM | | U | R | R | | | | | | | |
| | R | ML | | U | R | LC | | | | | | | |
| | MBP | LM | | U | R | C | | | | | | | |
| | SCM | LM | | U | R | C | | | | | | | |
| | R | LM | | U | R | U | | | | | | | |
| | R | LM | | OU | R | U | | | | | | | |
| P | MR | L | | U | R | C | | | | | | | |
| P | R | ML | | U | R | C | | | | | | | |
| P | CM | L | | U | R | LC | | | | | | | |

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|--|----|----|---|---|----|---|--|--|--|--|--|--|--|
| | RS | L | | L | RM | U | | | | | | | |
| | FM | LM | | L | R | C | | | | | | | |
| | FC | L | S | L | M | R | | | | | | | |
| | FM | LM | | L | R | C | | | | | | | |
| | F | L | S | L | RM | U | | | | | | | |
| | F | L | | L | R | R | | | | | | | |
| | F | LM | | L | M | U | | | | | | | |
| | F | L | | L | R | U | | | | | | | |
| | F | LM | | L | M | U | | | | | | | |
| | F | LM | | L | R | U | | | | | | | |

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|---|-----|----|---|--|---|----|--|--|--|--|--|--|--|
| P | F | LM | | | M | C | | | | | | | |
| P | SF | LM | | | M | U | | | | | | | |
| P | F | LM | | | M | U | | | | | | | |
| P | CMF | L | | | M | LC | | | | | | | |
| P | CM | L | | | M | U | | | | | | | |
| P | U | L | S | | M | U | | | | | | | |
| P | C | L | | | M | C | | | | | | | |

| No. | FAMILY AND SPECIES | |
|-----|------------------------|----------------------------------|
| 184 | EURASIAN CURLEW | <i>Numenius arquata</i> |
| 187 | FAR EASTERN CURLEW | <i>Numenius madagascariensis</i> |
| 190 | SPOTTED REDSHANK | <i>Tringa erythropus</i> |
| 191 | COMMON REDSHANK | <i>Tringa totanus</i> |
| 192 | MARSH SANDPIPER | <i>Tringa stagnatilis</i> |
| 193 | COMMON GREENSHANK | <i>Tringa nebularia</i> |
| 194 | NORDMANN'S GREENSHANK | <i>Tringa guttifer</i> |
| 196 | GREEN SANDPIPER | <i>Tringa ochropus</i> |
| 197 | WOOD SANDPIPER | <i>Tringa glareola</i> |
| 198 | TEREK SANDPIPER | <i>Tringa cinerea</i> |
| 199 | COMMON SANDPIPER | <i>Tringa hypoleucos</i> |
| 200 | GREY-TAILED TATTLER | <i>Tringa brevipes</i> |
| 201 | RUDDY TURNSTONE | <i>Arenaria interpres</i> |
| 202 | ASIAN DOWITCHER | <i>Limnodromus semipalmatus</i> |
| 210 | GREAT KNOT | <i>Calidris tenuirostris</i> |
| 209 | RED KNOT | <i>Calidris canutus</i> |
| 217 | SANDERLING | <i>Calidris alba</i> |
| 211 | RUFIOUS-NECKED STINT | <i>Calidris ruficollis</i> |
| 212 | TEMMINCK'S STINT | <i>Calidris temminckii</i> |
| 213 | LONG-TOED STINT | <i>Calidris subminuta</i> |
| 216 | CURLEW SANDPIPER | <i>Calidris ferruginea</i> |
| 218 | BROAD-BILLED SANDPIPER | <i>Limicola falcinellus</i> |
| 220 | RUFF | <i>Philomachus pugnax</i> |
| 223 | RED PHALAROPE | <i>Phalaropus fulicaria</i> |
| 224 | RED-NECKED PHALAROPE | <i>Phalaropus lobatus</i> |

BURHINIDAE

| | | |
|-----|------------------|---------------------------|
| 225 | BEACH THICK-KNEE | <i>Burhinus giganteus</i> |
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CHARADRIIDAE

| | | |
|-----|-----------------------|--------------------------------|
| 222 | BLACK-WINGED STILT | <i>Himantopus himantopus</i> |
| 173 | PACIFIC GOLDEN-PLOVER | <i>Pluvialis fulva</i> |
| 172 | GREY PLOVER | <i>Pluvialis squatarola</i> |
| 175 | LITTLE RINGED PLOVER | <i>Charadrius dubius</i> |
| 176 | KENTISH PLOVER | <i>Charadrius alexandrinus</i> |
| 179 | MALAYSIAN PLOVER | <i>Charadrius peronii</i> |

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| P | C | L | | | M | C | | | | | |
| P | C | L | | | M | U | | | | | |
| P | CF | L | CS | | M | U | | | | | |
| P | CMF | LM | | | M | C | | | | | |
| P | CF | L | | | M | U | | | | | |
| P | CF | L | | | M | U | | | | | |
| P | C | L | S | | M | R | | | | | |
| P | F | L | S | | M | U | | | | | |
| P | FC | LM | | | M | C | | | | | |
| P | CM | L | | | M | C | | | | | |
| P | CFU | LM | | | M | C | | | | | |
| P | C | L | | | M | C | | | | | |
| P | C | L | | | M | C | | | | | |
| P | C | L | | | M | U | | | | | |
| P | C | L | | | M | C | | | | | |
| P | CF | L | | | M | U | | | | | |
| P | C | L | | | M | C | | | | | |
| P | C | L | | | M | C | | | | | |
| P | CF | L | | | M | U | | | | | |
| P | F | LM | | | M | U | | | | | |
| P | C | L | | | M | C | | | | | |
| P | C | L | | | M | R | | | | | |
| P | C | L | | | M | R | | | | | |
| P | C | L | S | | M | R | | | | | |
| P | CF | LM | | | M | LC | | | | | |

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| P | C | L | | | M | R | | | | | |
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|---|-----|----|--|--|---|---|--|--|--|--|--|
| P | F | L | | | V | R | | | | | |
| P | CU | LM | | | M | C | | | | | |
| P | C | L | | | M | C | | | | | |
| P | FCU | L | | | M | C | | | | | |
| P | CU | L | | | M | U | | | | | |
| P | C | L | | | R | U | | | | | |

| No. | FAMILY AND SPECIES | |
|-----|--------------------|--|
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| | | |
|-----|---------------------|--------------------------------|
| 181 | MONGOLIAN PLOVER | <i>Charadrius mongolus</i> |
| 182 | GREATER SAND-PLOVER | <i>Charadrius leschenautii</i> |
| 183 | ORIENTAL PLOVER | <i>Charadrius veredus</i> |
| 169 | GREY-HEADED LAPWING | <i>Vanellus cinereus</i> |

GLAREOLIDAE

| | | |
|-----|-----------------------|----------------------------|
| 226 | ORIENTAL PRATINCOLE | <i>Glareola maldivarum</i> |
| 227 | AUSTRALIAN PRATINCOLE | <i>Stiltia isabella</i> |

LARIDAE

| | | |
|-----|--------------------------|---------------------------------|
| 229 | PARASITIC JAEGER | <i>Stercorarius parasiticus</i> |
| 232 | COMMON BLACK-HEADED GULL | <i>Larus ridibundus</i> |
| 237 | GULL-BILLED TERN | <i>Sterna nilotica</i> |
| 238 | CASPIAN TERN | <i>Sterna caspia</i> |
| 246 | LESSER CRESTED-TERN | <i>Sterna bengalensis</i> |
| 245 | GREAT CRESTED-TERN | <i>Sterna bergii</i> |
| 247 | CHINESE CRESTED-TERN | <i>Sterna bernsteini</i> |
| 240 | ROSEATE TERN | <i>Sterna dougallii</i> |
| 241 | BLACK-NAPED TERN | <i>Sterna sumatrana</i> |
| 239 | COMMON TERN | <i>Sterna hirundo</i> |
| 244 | LITTLE TERN | <i>Sterna albigrons</i> |
| 242 | BRIDLED TERN | <i>Sterna anaethetus</i> |
| 243 | SOOTY TERN | <i>Sterna fuscata</i> |
| 235 | WHISKERED TERN | <i>Chlidonias hybridus</i> |
| 236 | WHITE-WINGED TERN | <i>Chlidonias leucopterus</i> |
| 249 | BLACK NODDY | <i>Anous minutus</i> |
| 248 | BROWN NODDY | <i>Anous stolidus</i> |

ACCIPITRIDAE

| | | |
|----|--------------------------|-------------------------------|
| 80 | OSPREY | <i>Pandion haliaetus</i> |
| 81 | JERDON'S BAZA | <i>Aviceda jerdoni</i> |
| 83 | ORIENTAL HONEY-BUZZARD | <i>Pernus ptilorhynchus</i> |
| 84 | BAT HAWK | <i>Macheiramphus alcinus</i> |
| 86 | BLACK KITE | <i>Milvus migrans</i> |
| 87 | BRAHMINY KITE | <i>Haliastur indus</i> |
| 88 | WHITE-BELLIED FISH-EAGLE | <i>Haliaeetus leucogaster</i> |
| 89 | LESSER FISH-EAGLE | <i>Ichthyophaga humilis</i> |